Maintenance schedule for Purge and Trap system

			First installation	Every day	Every 2 weeks	Every 3 months	After 1 year	After 2 years	After 3 years	After 4 years	After 5 years
Hydroxychrom		Check and add deionised water in the external tank	✓		✓						
		Purge the external water tank			✓						
		Check the zero air flow crossing the hydrogen dryer	✓				✓				
On the Zero air module		Check the outlet pressure (stability, value, ...)	✓			✓					
		Check the catalyser is heated				✓					
		Check the air pressure inlet : 5 bar				✓					
		Check the air pressure on the internal manometer : 3 bars				✓					
On the N2 module		Check the outlet pressure (stability, value, ...) : 3 bar on the manometer				✓					
		Check the catalyser is heated				✓					
On the Gas Chromatograph	General remarks	Check the head column pressure (value, stability)	✓			✓					
		Check the flame of the FID is ON (nice chromatograms + normal base line)	✓		✓						
		Check the FID temperature and the column temperature	✓			✓					
		Start automatic internal calibration, to follow the concentration trend		✓							
		Start a calibration using an external cylinder	✓				✓				
		Check there is no leak on the H2 circuit	✓				✓				
	FID	Check the zero air flow crossing the sample dryer (see the relative rotameter)	✓			✓					
		Check the Air and H2 flows on the FID	✓				✓				
		Check the ignitor voltage	✓				✓				
	Trap	Check the ΔP (Ambient P - Critical P)	✓		✓						
		Check the trap thermodesorption					✓				
		Visual check of the adsorbent inside the trap					✓				
	Sample path	Check the sample flow in injection and sampling mode	✓			✓					
		Check the vacuum done by the sampling pump					✓				
	On the chromatograms	Retention times check - adjustment of the retention time ranges if needed	✓		✓						
		Response factors check					✓				
		Check of the BS stability	✓		✓						
On the permeation oven		Check the dilution flows crossing the AirmoCal	✓			✓					
		Check the permeation oven temperature (displayed on the screen) : 40°C	✓			✓					
		Check the pressure on the "calib" manometer : P = 2 bar	✓		✓						
On the "purge" module		Check the sample flow n°1 and n°2 are crossing the sampling line correctly (check there is a flow going out on "vent 1")	✓		✓						
		Check there is no water on the bottom plate of the cabinet (no water leak)	✓			✓					
		Check there is no dust or no solid deposit on the glass parts. Clean the glass parts if needed	✓		✓						
		Clean the glass sparger with the ultrason bath	✓			✓					
		Check the water pump works well : when R4 is ON a flow must go out from ""Sample out"	✓			✓					
		Check that the water contained in the sparger is removed correctly (when R6+R2 are ON)	✓			✓					
		Check the water injection in the sparger is OK (when R5+R2 are ON)	✓			✓					
Replacement of the parts of the preventive maintenance kits		Preventive maintenance kit 1 year					✓	✓	✓	✓	✓
		Preventive maintenance kit 2 years						✓		✓	
		Preventive maintenance kit 3 years							✓		
		Preventive maintenance kit 5 years									✓